CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CEMENT/2015-16 Date: 05.03.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B. Shankar,** Huttanahalli village, Chikkajala Post, Bangalore North.
*NAME OF THE WORK	:	Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.
*REFERENCE	:	AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	03.03.2016
PERIOD OF TESTING	:	03.03.2016 to 05.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

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*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/SAND-Gradation/2015-16 : 05.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

*** Name of Work** : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 03.03.2016

Date of Testing : 05.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	71.00	60-95	75-100	85-100	95-100
1.18	47.50	30-70	55-90	75-100	90-100
600 Micron	22.50	15-34	35-59	60-79	80-100
300 Micron	10.50	5-20	8-30	12-40	15-50
150 Micron	6.00	0-10	0-10	0-10	0-15

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* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/AGG/GR/2015-16 : 05.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

*** Name of Work** : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 03.03.2016

Date of Testing : 05.03.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.50	95-100	85-100
20	38.50	30-70	0-20
10	14.00	10-35	0-5
4.75	3.20	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CC Solid Block/2015-16 : 08.03.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

*** Name of the Work** : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Sample Received on : 03.03.2016

Date of Testing : 08.03.2016

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.26	259.6	3.25	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	36.35	260.4	3.26	
3	Block 3	34.21	262.3	3.28	
4	Block 4	35.29	263.4	3.29	
5	Block 5	34.29	260.5	3.26	
6	Block 6	35.24	262.2	3.28	
7	Block 7	36.35	263.5	3.29	
8	Block 8	34.25	264.1	3.30	

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Job No.: CTCE/BBMP/W.No.07/BS /STEEL/2015-16 10.03.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B. Shankar,** Huttanahalli village, Chikkajala Post, Bangalore North.
Name of the Work	:	Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016
Date of Test	:	10.03.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/BS /STEEL/2015-16 10.03.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B. Shankar,** Huttanahalli village, Chikkajala Post, Bangalore North.
Name of the Work	:	Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016
Date of Test	:	10.03.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CUBE/2015-16 11.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

***Name of the work** : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

***Reference** : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 11.04.2016

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1

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2016	11.04.2016	8.190	478.3	21.26
2	14.03.2016	11.04.2016	8.290	496.5	22.07
3	14.03.2016	11.04.2016	8.340	520.6	23.14

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CUBE/2015-16 13.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

*Name of the work : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

*Reference : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 13.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2016	13.04.2016	8.129	485.5	21.58
2	16.03.2016	13.04.2016	8.240	510.2	22.68
3	16.03.2016	13.04.2016	8.356	520.1	23.12

AE-I

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Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CUBE/2015-16 25.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*Agency	: **Mr. B. Shankar,** Huttanahalli village, Chikkajala Post, Bangalore North.
*Name of the work	: Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.
*Reference	: AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 25.04.2016

AE-7

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2016	25.04.2016	8.115	479.6	21.32
2	28.03.2016	25.04.2016	8.229	516.4	22.95
3	28.03.2016	25.04.2016	8.310	528.6	23.49

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Job No.: CTCE/BBMP/W.No.07/BS/CSR-03/1087a/CUBE/2015-16 26.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : **Mr. B. Shankar,**
Huttanahalli village, Chikkajala Post, Bangalore North.

*Name of the work : Providing concrete drains in Agasarahatti, Jakkur village, Ward No.07, BBMP, Bangalore.

*Reference : AEE/(KOD.SUB.DIV)/272/2015-16 Dated: 03.03.2016

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2016	26.04.2016	8.175	479.6	21.32
2	29.03.2016	26.04.2016	8.288	502.2	22.32
3	29.03.2016	26.04.2016	8.332	518.7	23.05

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